

**WHAT IS CLAIMED IS:**

1. A self-anchoring mast that deploys a high-speed submersible mixer in a tank, comprising:
  - a) a first mast member;
  - b) a second mast member operably connected to said first mast member; and
  - c) a foot member operably connected to said second mast member to support said self-anchoring mast in a tank.
2. The mast of Claim 1, wherein:  
said second mast member comprises attachment means to connect a mixer thereto.
3. The mast of Claim 2, wherein:  
said attachment means comprises first and second tracks to slidably receive a bearing of the mixer.
4. The mast of Claim 3, wherein:  
said first and second tracks are aligned at approximately a right angle.
5. The mast of Claim 3, wherein:  
said first track extends in a first direction that is the same as the axial direction of said first mast member; and  
said second track extends in a second direction at approximately a right angle to said first direction.

6. The mast of Claim 5, wherein:

said foot member includes a support base and a bearing assembly;

said bearing assembly is fixedly attached to said second mast member; and

wherein said second mast member is rotatable relative to said support base.

7. A self-anchoring mast that deploys a high-speed submersible mixer in a tank, comprising:

a) an upper mast member;

b) a lower mast member operably connected to said upper mast member;

c) a foot member operably connected to said lower mast member to support said self-anchoring mast in a tank;

d) said lower mast member including attachment means to connect a mixer thereto; and

e) said attachment means comprising first and second tracks that slidably receive a bearing of the mixer.

8. The mast of Claim 7, wherein:

said first track extends axially in the same direction as said upper mast member.

9. The mast of Claim 8, wherein:  
said second track extends at approximately a right angle to said upper mast member.
10. The mast of Claim 9, wherein:  
said foot member includes a support base and a bearing assembly;  
said bearing assembly is fixedly attached to said lower mast member; and  
wherein said lower mast member is rotatable relative to said support base.
11. The method of deploying a high-speed submersible mixer in a tank, comprising the steps of:
- a) providing a self-anchoring mast, comprising;
    - i) a first mast member;
    - ii) a second mast member operably connected to said first mast member; and
    - iii) a foot member operably connected to said second mast member for supporting the mast in a tank;

- b) connecting a mixer to the second mast member such that the mixer extends in the same direction as the second mast member;
- c) lowering the mast with the mixer in a tank; and
- d) rotating the mixer relative to the second mast member such that the mixer extends generally transversely thereto.

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12. The method of Claim 11, further comprising the step of:

- e) further lowering the mast in the tank until the foot member comes to rest on the bottom of the tank.

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